

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A computer implemented method for allocating a percentage of system resources among a plurality of process groups in a computer system, said computer system comprising a plurality of central processing units, said plurality of central processing units combined into a plurality of at least one processor sets [[set]], said method comprising:
 - assigning each of said plurality of process groups a number of shares of at least one of the plurality of processor sets [[set]]; and
 - allocating said system resources of said plurality of at least one processor sets [[set]] to each of said plurality of process groups associated with said at least one of the plurality of processor sets [[set]] according to the number of shares assigned to each of said plurality of process groups associated with said at least one of the plurality of processor sets [[set]], wherein said allocating system resources comprises implementing [[using]] fair-share scheduling independently within each of said plurality of processor sets.
2. (Currently Amended) The method of claim 1, wherein said system resources of each of ~~said at least one~~ the plurality of processor sets [[set]] are allocated based on a total number of shares of all active processor groups within each of ~~said at least one~~ the plurality of processor sets [[set]].
3. (Currently Amended) The method of claim 1, wherein said percentage of said system resources is calculated based on a ratio of the number of shares assigned to said each of said process groups to a total number of shares of all active process groups within each of said at least one of the plurality of processor sets [[set]].
4. (Previously Presented) The method of claim 1, wherein each of said plurality of process groups includes only one process.
5. (Currently Amended) A computer readable medium embodying a program for allocating a percentage of system resources among a plurality of process groups in a computer system,

said computer system comprising a plurality of central processing units, said plurality of central processing units combined into a plurality of at least one processor sets [[set]], said program comprising:

assigning each of said plurality of process groups a number of shares of at least one of the plurality of processor sets [[set]]; and

allocating said system resources of said plurality of at least one processor sets [[set]] to each of said plurality of process groups associated with said at least one of the plurality of processor sets [[set]] according to the number of shares assigned to each of said plurality of process groups associated with said at least one of the plurality of processor sets [[set]], wherein said allocating system resources comprises implementing [[using]] fair-share scheduling independently within each of said plurality of processor sets.

6. (Currently Amended) The computer readable medium of claim 5, wherein said system resources of each of ~~said at least one~~ the plurality of processor sets [[set]] are allocated based on a total number of shares of all active processor groups within each of ~~said at least one~~ the plurality of processor sets [[set]].
7. (Currently Amended) The computer readable medium of claim 5, wherein said percentage of said system resources is calculated based on a ratio of the number of shares assigned to said each of said plurality of process groups to a total number of shares of all active process groups within each of said at least one of the plurality of processor sets [[set]].
8. (Previously Presented) The computer readable medium of claim 5, wherein each of said plurality of process groups includes only one process.
9. (Currently Amended) A computer system comprising at least a central processing unit and a memory, said memory storing a program for allocating a percentage of system resources among a plurality of process groups in a computer system, said computer system comprising a plurality of central processing units, said plurality of central processing units combined into a plurality of at least one processor sets [[set]], said program comprising:

assigning each of said plurality of process groups a number of shares of at least one of the plurality of processor sets [[set]]; and

allocating said system resources of said at least one of the plurality of processor sets ~~[[set]]~~ to each of said plurality of process groups associated with said at least one of the plurality of processor sets ~~[[set]]~~ according to the number of shares assigned to each of said plurality of process groups associated with said at least one of the plurality of processor sets ~~[[set]]~~ wherein said allocating system resources comprises implementing ~~[[using]]~~ fair-share scheduling independently within each of the plurality of processor sets.

10. (Currently Amended) The computer system of claim 9, wherein said system resources of each of ~~said at least one~~ the plurality of processor sets ~~[[set]]~~ are allocated based on a total number of shares of all active processor groups within each of ~~said at least one~~ the plurality of processor sets ~~[[set]]~~.
11. (Currently Amended) The computer system of claim 9, wherein said percentage of said system resources is calculated based on a ratio of the number of shares assigned to said each of said plurality of process groups to a total number of shares of all active process groups within each of said at least one of the plurality of processor sets ~~[[set]]~~.
12. (Previously Presented) The computer system of claim 9, wherein each of said plurality of process groups includes only one process.